AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 22. (currently amended) A nerve guide conduit comprising a gene delivery system and a poly(phosphoester) polymer in the shape of a tube having a diameter, a first end, a second end, and a wall having an outer surface and a luminal surface.
 - 23. (cancelled).
- 24. (original) The nerve guide conduit of Claim 22, wherein the polymer has an average molecular weight of between 10,000 and 25,000.
- 25. (original) The nerve guide conduit of Claim 24, wherein the polymer has an average molecular weight of between 14,900 and 18,900.
- 26. (original) The nerve guide conduit of Claim 25, wherein the polymer has an average molecular weight of between 15,000 and 17,000.
- 27. (original) The nerve guide conduit of Claim 22, wherein the conduit has a surface porosity of between 2 and 58%.
- 28. (original) The nerve guide conduit of Claim 27, wherein the conduit has a surface porosity of 35%.
- 29. (original) The nerve guide conduit of Claim 27, wherein the conduit has a surface porosity of 8%.
- 30. (original) The nerve guide conduit of Claim 22, wherein the tube has a diameter of between 1 and 2 mm.
- 31. (original) The nerve guide conduit of Claim 30, wherein the diameter is 1.5 mm.

- 32. (previously amended) The nerve guide conduit of Claim 22, wherein the wall has a thickness of between 150 and 250 μm .
- 33. (previously amended) The nerve guide conduit of Claim 32, wherein the thickness is between 170 and 240 μm .
- 34. (original) The nerve guide conduit of Claim 22, wherein the wall comprises a plurality of layers.
 - 35. (original) The nerve guide conduit of Claim 34 comprising at least 3 layers.
- 36. (previously amended) The nerve guide conduit of Claim 34, wherein each layer is between 20 and 30 µm thick
- 37. (previously amended) The nerve guide conduit of Claim 36, wherein each layer is 25 µm thick.
- 38. (original) The nerve guide conduit of Claim 22, wherein the outer surface of the wall has greater microporosity than the luminal surface of the conduit.
 - 39. (cancelled).
- 40. (currently amended) The nerve guide conduit of Claim 39 22, wherein the gene delivery system comprises a complex of DNA and a cationic polymer or lipid loaded into the conduit.
- 41. (original) The nerve guide conduit of Claim 40, wherein the complex is particles of 20nm in diameter.
- 42. (original) The nerve guide conduit of Claim 40, wherein the cationic polymer or lipid comprises polyethylenimine, poly-L-lysine, or chitosan.
- 43. (original) The nerve guide conduit of Claim 40, wherein the cationic polymer or lipid comprises 1,2 dioleoyl phosphatidylethanolamine.

- 44. (currently amended) The nerve guide conduit of Claim 40, wherein the cationic polymer or lipid comprises Transfast or GenePORTER TRANSFAST or GENEPORTER.
- 45. (currently amended) The nerve guide conduit of any one of Claims 39 22 or 40 to 44, wherein the gene encodes a neurotrophic protein or a neuro-active neural fibre growth eliciting molecule.
- 46. (original) The nerve guide conduit of Claim 45, wherein the gene comprises NGF, BDNF or Bcl-2.
- 47. (currently amended) The nerve guide conduit of Claim 22, further A nerve guide conduit comprising a sustained protein delivery system and a poly(phosphoester) polymer in the shape of a tube having a diameter, a first end, a second end, and a wall having an outer surface and a luminal surface.
- 48. (currently amended) The nerve guide conduit of Claim 47, wherein the sustained protein delivery system comprises one or more microspheres loaded into the conduit, wherein the microspheres contain a protein that is released undergoes controlled release from the microspheres progressively.
- 49. (original) The nerve guide conduit of Claim 48, wherein the microspheres are made from a poly(phosphoester) polymer.
- 50. (previously amended) The nerve guide conduit of Claim 48, wherein the microspheres are made from a polymer comprising the subunit

wherein R' is ethyl or butyl and R and R" are each a suitable side chain or a cross linking agent.

- 51. (original) The nerve guide conduit of Claim 48, wherein the microspheres are made from poly(lactic-co-glycolic acid) or poly(lactide-co-glycolide).
- 52. (previously amended) The nerve guide conduit of any one of Claims 48 to 51, wherein the average diameter of the microspheres is between 5 and 20 μm.
- 53. (previously amended) The nerve guide conduit of Claim 52, wherein the average diameter of the microspheres is 10 µm.
- 54. (original) The nerve guide conduit of Claim 48, wherein the microspheres release the protein over a period of at least three months.
- 55. (currently amended) The nerve guide conduit of Claim 48, wherein at least 100mm microns of protein is loaded per 10 mm of conduit.
- 56. (original) The nerve guide conduit of Claim 47, wherein the sustained protein delivery system comprises NGF, BDNF, CNTF, epidermal growth factor or fibroblast growth factor.
- 57. (currently amended) A nerve guide conduit comprising a poly(phosphoester) polymer in the shape of a tube having a diameter, a first end, a second end, and a wall having an outer surface and a luminal surface The nerve guide conduit of Claim 22, wherein the conduit is loaded with a bioartificial nerve graft comprising Schwann cells.
- 98. (new) A nerve guide conduit comprising a poly(phosphoester) polymer in the shape of a tube having a diameter, a first end, a second end, and a wall having an outer surface and a luminal surface, wherein the outer surface of the wall has greater microporosity than the luminal surface of the conduit.